

Patent Abstracts of Japan

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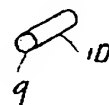
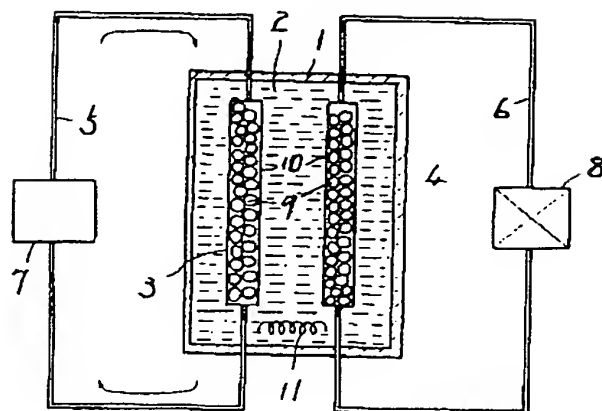
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TITLE : HEAT ACCUMULATING TANK



ABSTRACT : PURPOSE: To enable to obtain a heat accumulating tank capable of utilizing heat effectively, by packing capsules filled with a latent heat accumulating medium in heat exchanger pipes disposed in a heat accumulating tank utilizing a liquid heat medium for the purpose of space cooling and heating.

CONSTITUTION: Heat medium in a heat collector 7 is circulated while imparting heat to a sensible heat accumulating medium 2 at a heat collecting heat exchanger pipe 3, and at the same time, it imparts heat also to a latent heat accumulating medium 9 of paraffin wax charged in capsules 10 made of soft polyethylene, which capsules 10 are packed in the pipe 3. Thus, heat is accumulated effectively. In heat releasing process, on the other hand, a secondary heat medium passed through an indoor air conditioner 8 absorbs heat from the sensible heat accumulating medium 2 and the latent heat accumulating medium 9 at an indoor heat exchanger pipe 10 and releases heat at the indoor air conditioner 8. Thus, a heat accumulating tank capable of exchanging heat efficiently and having a high total heat capacity can be manufactured with ease in a highly reliable manner.

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